

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A variable focus lens comprising:

a container enclosing an insulating liquid ~~(A)~~ and a conducting liquid ~~(B)~~, the insulating liquid ~~(A)~~ and the conducting liquid ~~(B)~~ being immiscible, having different refractive indices and being in contact with each other via an interface ~~(14)~~, the liquids ~~(A, B)~~ being at least partially placed in a light path through the container;

an electrode arrangement ~~(2, 12)~~ for controlling the shape of the interface ~~(14)~~ by means of a voltage;

the container further comprising a transparent end portion ~~(4)~~ in the light path, a part ~~(4')~~ of the transparent end portion ~~(4)~~ of the container being in direct contact with and defining the shape of a central portion of the interface ~~(14)~~ at a predefined voltage ~~(V1)~~.

2. (Currently amended) ~~An~~ The variable focus lens as claimed in

claim 1, wherein the predefined value ~~(V1)~~ of the applied voltage is 0V.

3. (Currently amended) An electronic device ~~(1)~~ comprising:

a variable focus lens comprising:

a container enclosing an insulating liquid ~~(A)~~ and a conducting liquid ~~(B)~~, the insulating liquid ~~(A)~~ and the conducting liquid ~~(B)~~ being immiscible, having different refractive indices and being in contact with each other via an interface ~~(14)~~, the liquids ~~(A; B)~~ being at least partially placed in a light path through the container;

an electrode arrangement ~~(2; 12)~~ for controlling the shape of the interface ~~(14)~~ by means of a voltage;

the container further comprising a transparent end portion ~~(4)~~ in the light path, a part ~~(4')~~ of the transparent end portion ~~(4)~~ of the container being in direct contact with and defining the shape of a central portion of the interface ~~(14)~~ at a predefined voltage ~~(V1)~~; and

driver circuitry ~~(20)~~ coupled to the electrode arrangement ~~(2; 12)~~, the driver circuitry ~~(20)~~ being arranged to:

apply the predefined voltage ~~(V1)~~ across the electrode

arrangement ~~(2; 12)~~ in an idle state of the variable focus lens;
and

apply a further voltage ~~(V1')~~ across the electrode arrangement ~~(2; 12)~~ for separating the interface ~~(14)~~ from the transparent end portion ~~(4)~~ when the variable focus lens is enabled.

4. (Currently amended) ~~An~~ The electronic device ~~(1)~~ as claimed in claim 3, wherein the further voltage ~~(V1')~~ is a further predefined voltage.

5. (Currently amended) ~~An~~ The electronic device ~~(1)~~ as claimed in claim 3, wherein the electronic device ~~(1)~~ further comprises an image sensor ~~(30)~~ for sensing light passing through the variable focus lens, the image sensor ~~(30)~~ being arranged to provide the driver circuitry ~~(20)~~ with an output signal for controlling the magnitude of the further voltage ~~(V1')~~.